

## CLAIMS

1. Handheld electric beater-mixer adapted to drive at least one so-called beating accessory (10) such as for example a whisk, or a so-called mixing accessory (45) turning at high speed such as for example a mixer foot, comprising a body (2) containing an electric drive motor (6), two rotatable coupling devices (20, 33) which are connected to the shaft (8) of the motor (6) and which are adapted to receive, via respectively two engagement passages (26, 43) opening from the body (2), the beating accessory (10) and respectively the mixing accessory (45) and a safety device (55) adapted to prevent the simultaneous emplacement of the two accessories, respectively for beating (10) and for mixing (45),

characterized in that the safety device (55) comprises a movable mechanical member (57) adapted to block selectively one or the other of the two passages (26, 43) for engagement of the beating accessory (10) and the mixing accessory (45).

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2. Beater-mixer according to claim 1,  
characterized in that the mechanical member (57) comprises a portion forming a cover (67) associated with the passage (26) for engagement of the beating accessory

(10), and a portion forming a finger (61) associated with the passage (43) for engagement of the mixing accessory (45), this member (57) being movable between a so-called beating position in which its portion forming a cover (67) uncovers the outlet (22) of the passage (26) for engagement of the beating accessory (10) so as to permit the emplacement of this beating accessory, whilst its portion forming a finger (61) projects into the passage (43) for engagement of the mixing accessory (45) so as to prevent the emplacement of the mixing accessory, and a so-called mixing position in which its portion forming a finger (61) is disengaged so as to permit the emplacement of the mixing accessory, whilst its portion forming a cover (67) closes the outlet (22) of the passage (26) for engagement of the beating accessory (10) so as to prevent the emplacement of the beating accessory.

3. Beater-mixer according to claim 2, in which the passage (26) for engagement of the beating accessory (10) opens through the lower wall (24) of the body (2), whilst the passage (43) for engagement of the mixing accessory (45) opens through the rear wall (41) of the body (2), the coupling device (33) for the mixing accessory (45) is disposed in a cylindrical socket (35) extending

horizontally and defining the engagement passage for the mixing accessory, and the beating accessory (10) comprises a shaft (28) of which one end is adapted to couple with the associated coupling device (20),

5 characterized in that the mechanical member (57) is mounted horizontally slidably in the body (2), adjacent the internal surface (24a) of the lower wall (24) of the body (2), in that the portion forming a finger (61) of the member (57) is engaged within the socket (35) through a  
10 clearance opening (63) provided in the sidewall (65) of said socket (35) and disengages as a result of the emplacement of the mixing accessory (45), and in that the portion forming a cover (67) of the member (57) comprises at least one notch (70) which is located facing the outlet  
15 (22) of the passage (26) for engagement of the beating assembly (10) when the member (57) is in the beating position, and is adapted, in this beating position, to let pass with slight peripheral play the shaft (28) of the beating accessory (10).

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4. Beater-mixer according to claim 3,

characterized in that guide means (76) are disposed in the body (2) to guide the mechanical member (57) during its sliding.

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5. Beater-mixer according to one of claims 2 to 4,  
characterized in that the mechanical member (57) is  
urged by resilient return means (72) which tend to return  
5 it to the beating position.

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